

## IN THE CLAIMS

Please amend the following claims.

1. (currently amended) A transformer comprising:

~~a first inductor having one or more trenches and comprising a first conductor defining a signal path along the one or more trenches of the first inductor, and a first magnetic layer defining a path along the one or more trenches parallel to the signal path of the first conductor; and~~

~~a second inductor having one or more trenches and comprising a second conductor defining a signal path along the one or more trenches of the second inductor, and a second magnetic layer defining a path along the one or more trenches parallel to the signal path of the second conductor.~~

a first inductor having an at least one trench, the at least one trench having a pair of walls and a bottom;

a first conductor defining a first signal path along the pair of walls and the bottom of the at least one trench of the first inductor;

a first magnetic layer defining a second signal path parallel to the first signal path along the pair of walls and the bottom of the at least one trench of the first inductor;

a second inductor having an at least one trench, the at least one trench having a pair of walls and a bottom;

a second conductor defining a third signal path along the pair of walls and the bottom of the at least one trench of the second inductor;

a second magnetic layer defining a fourth signal path parallel to the third signal path along the pair of walls and the bottom of the at least one trench of the second inductor.

2. (currently amended) The transformer of claim 1, wherein the first inductor comprises one or more legs each having ~~one or more trenches~~ at least one trench and the second inductor comprises one or more legs each having ~~one or more trenches~~ at least one trench;

wherein the first conductor defines one or more signal paths each along one or more legs of the first inductor; and

wherein the second conductor defines one or more signal paths each along one or more legs of the second inductor.

3. (previously presented) The transformer of claim 2, wherein the first inductor has at least two adjacent legs and the second inductor has at least one leg and at least a portion of the at least one leg of the second inductor is positioned between the at least two adjacent legs of the first inductor such that an electromagnetic field generated by the first inductor induces a voltage potential across the second inductor.

4. (original) The transformer of claim 2, wherein the first and second inductors are positioned side-by-side.

5. (cancelled)

6. (previously presented) The transformer of claim 1, wherein the first magnetic layer and the second magnetic layer comprise an amorphous cobalt alloy.

7. (currently amended) The transformer of claim 1, wherein the first inductor comprises one or more legs each having ~~one or more trenches~~ at least one trench and the second inductor comprises one or more legs each having ~~one or more trenches~~ at least one trench; and

wherein the first magnetic layer and the second magnetic layer are coupled to form magnetic strips extending across one or more legs of the first inductor and one or more legs of the second inductor.

8. (currently amended) A transformer comprising:

a substrate;

a first patterned dielectric layer over the substrate, the first patterned dielectric layer defining ~~one or more trenches~~ an at least one trench for a first inductor, ~~the at least one trench for the first inductor having a pair of walls and a bottom~~ and ~~one or more trenches~~ an at least one trench for a second inductor, ~~the at least one trench for the second inductor having a pair of walls and a bottom~~;

a first magnetic layer over the first patterned dielectric layer, the first magnetic layer defining a path along the ~~one or more trenches~~ for pair of walls and the bottom of the first inductor;

a second magnetic layer over the first patterned dielectric layer, the second magnetic layer defining a path along the ~~one or more trenches~~ for pair of walls and the bottom of the second inductor;

a first conductor over the first magnetic layer, the first conductor defining a signal path along the ~~one or more trenches~~ for pair of walls and the bottom of the first inductor; and

a second conductor over second magnetic layer, the second conductor defining a signal path along the ~~one or more trenches~~ for pair of walls and the bottom of the second inductor.

9. (currently amended) The transformer of claim 8, wherein the first conductor defines one or more signal paths each along one or more legs each having ~~one or more trenches~~ at

least one trench and the second conductor defines one or more signal paths each along one or more legs each having ~~one or more trenches~~ at least one trench.

10. (original) The transformer of claim 9, wherein at least a portion of a leg for the second conductor is positioned between two legs for the first conductor.

11. (original) The transformer of claim 9, wherein the first and second conductors are positioned side-by-side.

12. (cancelled)

13. (previously presented) The transformer of claim 8, wherein the first magnetic layer and the second magnetic layer comprise an amorphous cobalt alloy.

14. (previously presented) The transformer of claim 8, comprising a second dielectric layer over the first and second conductors and the first and second magnetic layers over the first dielectric layer, wherein the first magnetic layer lies over the first conductor and the second magnetic layer lies over the second conductor.

15. (cancelled)

16. (previously presented) The transformer of claim 8, further comprising a third magnetic layer over the first conductor and a fourth magnetic layer over the second conductor, and a third dielectric layer over the third magnetic layer and the fourth magnetic layer.

17. (original) The transformer of claim 16, wherein the first conductor defines one or more signal paths each along one or more legs each having one or more trenches and the second conductor defines one or more signal paths each along one or more legs each having one or more trenches; and

wherein the first, second, third, and fourth magnetic layers are coupled to form magnetic strips extending across one or more legs for the first conductor and one or more legs for the second conductor.

Claims 18-49 (cancelled)